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L5 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS

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TITLE: Screening assay for identification of agents which alter expression of parathyroid hormone-related protein in mammalian cells

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PATENT ASSIGNEE(S): Osteoscreen, USA; Mundy, Gregory R.; Gallwitz, Wolfgang E.

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CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9807844	A2	19980226	WO 1997-US14836	19970822
WO 9807844	A3	19980827		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 5914233	A	19990622	US 1997-915868	19970821
AU 9741587	A1	19980306	AU 1997-41587	19970822
US 2002061509	A1	20020523	US 2001-879445	20010611
PRIORITY APPLN. INFO.:			US 1996-25215P	P 19960823
			US 1997-915868	A 19970821
			WO 1997-US14836	W 19970822
			US 1999-283675	B3 19990401

AB A cell-based assay technique for identifying and evaluating chem. compds. and agents which affect the prodn. of parathyroid hormone-related protein (Pth-rP) in mammalian cells and other cell types is set forth. Specifically, tumor cell lines are transformed with an expression vector comprising a DNA sequence encoding a promoter region of PTH-rP operatively linked to a reporter gene encoding an assayable product and cultured under conditions which permit expression of the assayable product. Chem. agent and factors can then be identified by their ability to modulate the expression of the reporter gene, thereby affecting the prodn. of the assayable product. Such agents are then tested for inhibitory effects on tumor cell growth and for stimulatory effects on bone formation and repair. A chimeric gene comprising Pth-rP promoter linked to the firefly luciferase gene was prepd. This chimeric reporter gene was expressed in human breast cancer cell line MDA-MD-231 and human lung cancer cell line RWGT2. 6-Thioguanine and 5-benzylidene hydrazino-1,2,3,4-tetrazole were found to inhibit reporter gene expression. Both compds. lowered serum calcium and Pth-rP levels when administered to mice with squamous cell carcinoma of the lung. A similar assay indicated that acriflavinium hydrochloride stimulated expression of Pth-rP promoter-driven reporter genes.

IT 204278-43-3
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(nucleotide sequence; screening assay for identification of agents
which alter expression of parathyroid hormone-related protein in
mammalian cells)

RN 204278-43-3 HCAPLUS
CN DNA (human humoral hypercalcemic factor gene promoter region) (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 9001-45-0, .beta.-Glucuronidase 9001-78-9
9031-11-2, .beta.-Galactosidase 9040-07-7,
Chloramphenicol acetyltransferase 12629-01-5, Somatotropin
(human) 61970-00-1, Luciferase
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(parathyroid hormone-related protein gene promoter fused to gene for;
screening assay for identification of agents which alter expression of
parathyroid hormone-related protein in mammalian cells)

RN 9001-45-0 HCAPLUS
CN Glucuronidase, .beta.- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 9001-78-9 HCAPLUS
CN Phosphatase, alkaline (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 9031-11-2 HCAPLUS
CN Galactosidase, .beta.- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 9040-07-7 HCAPLUS
CN Acetyltransferase, chloramphenicol (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 12629-01-5 HCAPLUS
CN Somatotropin (human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 61970-00-1 HCAPLUS
CN Luciferase (firefly luciferin) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 103370-86-1, Humoral hypercalcemic factor
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(screening assay for identification of agents which alter expression of
parathyroid hormone-related protein in mammalian cells)

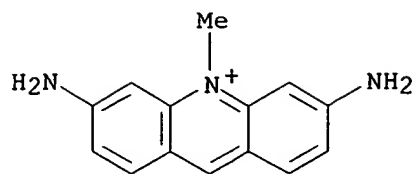
RN 103370-86-1 HCAPLUS
CN Humoral hypercalcemic factor (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 86-40-8 154-42-7, 6-Thioguanine 10444-59-4
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(screening assay for identification of agents which alter expression of
parathyroid hormone-related protein in mammalian cells)

RN 86-40-8 HCAPLUS

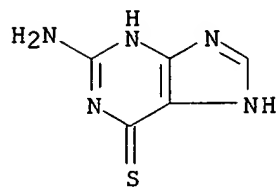
CN Acridinium, 3,6-diamino-10-methyl-, chloride (8CI, 9CI) (CA INDEX NAME)



● Cl⁻

RN 154-42-7 HCAPLUS

CN 6H-Purine-6-thione, 2-amino-1,7-dihydro- (9CI) (CA INDEX NAME)



RN 10444-59-4 HCAPLUS

CN Benzaldehyde, 1H-tetrazol-5-ylhydrazone (9CI) (CA INDEX NAME)

